

WHAT IS CLAIMED IS

1. A device for selecting a coding mode for a video encoding system, comprising:

a first memory for storing frame data of an input image;

a second memory for storing the previous frame data;

5 a motion prediction part for comparing the present input frame data stored in the first memory with the previous frame data stored in the second memory to detect a SAD (sum of absolute pixel differences) value; and

an SAD examiner for generating coding selection information for 10 coding the frame data in an intra-coding mode when the SAD value of the input frame data output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the SAD value of the input frame data does not exceed the predetermined SAD threshold.

2. A coding mode selecting method in which an SAD value between input frames is used in a video encoding system, the coding mode selecting method comprising the steps of:

detecting the SAD value of input frame data;

5 determining whether the detected SAD value exceeds a predetermined SAD threshold;

coding the input frame in an intra-coding mode when the SAD value of the input frame exceeds the SAD threshold; and

10 coding the input frame in an inter-coding mode when the SAD value of the input frame does not exceed the SAD threshold.

3. A device for selecting a coding mode for a video encoding system, comprising:

a motion prediction part for comparing data of a present input frame with data of a previous frame to detect a SAD (sum of absolute 5 pixel differences) value; and

an SAD examiner for generating coding selection information for coding the frame data in an intra-coding mode when the SAD value of the input frame data output from the motion prediction part exceeds a predetermined SAD threshold, or in an inter-coding mode when the 10 SAD value of the input frame data does not exceed the predetermined SAD threshold.